

MAR 03 2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D412-758-015
Job Sheet 173420



Part No: D412-758-015

Job Qty: 1 ea

Part Name: GPS Receiver Gimbal Mount



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/1/18

Job Tracking No:

Due Date: 3/8/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: DWG REV D SHEET 24 IPP rev:A 10.06.21 new issue DD verified by:EC IPP REV:B 12.10.24 ECN 12-669
DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	3/8/18	3/8/18	0.00	0.00	Start Up Stores/Pkg-1		MAR 03 2018
110	Packaging	1 pcs	3/8/18	3/8/18	0.00	0.00	Packaging1-4		MAR 03 2018
115	QC	1 pcs	3/8/18	3/8/18	0.00	0.00	QC4		DAS SMB
118	DC	1 pcs	3/8/18	3/8/18	0.00	0.00	DC		CHG 2 35
120	Packaging	1 pcs	3/8/18	3/8/18	0.00	0.00	Packaging3-2		9-89 SMB
130	QC21-FG	1 Ea	3/8/18	3/8/18	0.00	0.00	QC21		DAS 21 9-89 MAR 07 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN525-10R10	Screw	4 Ea (4 ea)	90-Start up Operation	
AN525-10R9	Screw	3 Ea (3 ea)	90-Start up Operation	
D2464	Neoprene Seal (\$Per Foot)	1.1000 ft (1.1 ea)	90-Start up Operation	
D3525-1	Placard	1 Ea (1 ea)	90-Start up Operation	
D3531-041	Top Mounted Gps Bracket Assembly	1 Ea (1 ea)	90-Start up Operation	
D3645-1	Washer	4 Ea (4 ea)	90-Start up Operation	
MS21042L06	Nut	4 Ea (4 ea)	90-Start up Operation	
MS21042L3	Nut	3 Ea (3 ea)	90-Start up Operation	
MS24693-S29	Screw	4 Ea (4 ea)	90-Start up Operation	
NAS1149D0363J	Washer	7 Ea (7 ea)	90-Start up Operation	
NAS1149DN632J	Washer	4 pcs (4 ea)	90-Start up Operation	
RAM-B-201U-A	Socket Arm, 1.75"	2 pcs (2 ea)	90-Start up Operation	
RAM-B-202U	Round Plate Mount, Single 1" Ball	2 pcs (2 ea)	90-Start up Operation	
RAM-B-217U	Round Plate Mount, Dual 1" Ball	1 pcs (1 ea)	90-Start up Operation	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S047547



Part: D412-758-015

Job No: 173420

Serial No/Batch: S047547

Revision:
Inspector:

Date: 03/03/18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☐ Composite ☐ Supplier ☐			
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Date :	Step #:	QTY Effective :	MRB (QSI042) Approval
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Description Work Order Deviation 	Disposition 	Completed By
		Lead hand / Supervisor Approval Verification
		QC / QA Coordinator Approval

Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN525-10R10	4	268	0
	AN525-10R9	3	130	0
	D2464	1	654	0
	D3525-1	1	9	0
	D3531-041	1	1	0
	D3645-1	4	47	0
	MS21042L06	4	152	0
	MS21042L3	3	3,339	0
	MS24693-S29	4	80	0
	NAS1149D0363J	7	3,387	0
	NAS1149DN632J	4	428	0
	RAM-B-201U-A	2	5	0
	RAM-B-202U	2	5	0
	RAM-B-217U	1	2	0
Part Specifications				
Specifications could not be found.				

Plex 3/1/18 1:57 PM dart.lacelle.linda

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																							
Misidentified ☐	Past Due ☐																								



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Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001365	S047537	AN525-10R10	Screw	fm135979	ST329	4
001365	S047536	AN525-10R9	Screw	fm133990-17	ST329	3
001365	S047542	D2464	Neoprene Seal (\$Per Foot)	F121946	ST409	1.1
001365	S047540	D3525-1	Placard	s030369	ST038	1
001365	F159790	D3531-041	Top Mounted Gps Bracket Assembly		ST503	1
001365	S047535	D3645-1	Washer	f123144	ST047	4
001365	S047532	MS21042L06	Nut	s027552	ST303	4
001365	S047531	MS21042L3	Nut	s038764	ST303	3
001365	S047528	MS24693-S29	Screw	fm136741-40	ST286	4
001365	S047527	NAS1149D0363J	Washer	s015269	ST263	7
001365	S047524	NAS1149DN632J	Washer	s024482	ST265	4
001365	F158941	RAM-B-201U-A	Socket Arm, 1.75"		ST571	2
001365	F158942	RAM-B-202U	Round Plate Mount, Single 1" Ball		ST571	2
001365	S047517	RAM-B-217U	Round Plate Mount, Dual 1" Ball	f158943	ST571	1

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 3/3/18 11:11 AM dart.quirion.sonia

5.0 PARTS LIST

QTY -011	QTY -013	QTY -015	Part Number	Description
X			D412-758-011	Bottom Mounted GPS Receiver Gimbal Mount
	X		D412-758-013	Top Mounted GPS Receiver Gimbal Mount
		X	D412-758-015	GPSMAP Top Mounted GPS Receiver Gimbal Mount
1			D3514-041	Bottom Mounted Gimbal Assembly
	1		D3514-043	Top Mounted Gimbal Assembly
		1	D3531-041	Bracket Assy.
	2	2	D2464-0066	Neoprene Seal
1	1	1	D3525-1	Placard
1			D3527-1	Support Arm
1			D3530-1	Base Plate
1			D3530-3	Mounting Plate
1	1		D3534-1	Doubler
	4	4	D3645-1	Washer
		3	AN525-10R9	Screw
	4	4	AN525-10R10	Screw
3			AN526-632R7	Screw (or MS35206-229)
3		4	NAS1149DN632J	Washer (Alternate p/n AN960JD6)
2	4	7	NAS1149D0363J	Washer (Alternate p/n AN960JD10)
3		4	MS21042L06	Nut
1		3	MS21042L3	Nut
4	4		MS24693-S27	Screw
1			MS27039-1-09	Screw
		4	MS24693-S29	Screw
		2	RAM-B-201U-A	Socket Arm, 1.75"
		2	RAM-B-202U	Round Plate Mount, Single 1" Ball
		1	RAM-B-217U	Round Plate Mount, Dual 1" Ball

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Revision: D

Date: 12.08.10

PAGE 1 OF 1

Part Number: D412-758-015

Description: GPSMAP TOP MOUNTED GPS RECEIVER GIMBAL MOUNT

[illegible]